CLAIMS

What is claimed is:

1	1. A method of producing a representation of a streaming media data at a
2	caching proxy server, the method comprising:
3	transmitting a request for streaming media data to be delivered to the
4	caching proxy server;
<u>:</u> 5	transmitting a request for data associated with the streaming media
6	data, the request including an identifier which represents one of several
7	possible types of data associated with the streaming media data;
8	receiving the streaming media data and storing the streaming media
9	data on a storage device which is capable of being controlled by the caching
10	proxy server; and
11	receiving the data associated with the streaming media data in a body of
12	a packet.

- 1 2. The method of claim 1, wherein the data associated with the streaming
- 2 media data comprises a RTP Meta-Information payload format which includes
- 3 a field header to identify the streaming media data associated with the request,
- 4 and a field body to include the streaming media data.

- 1 3. The method of claim 2, wherein the field header is a standard field
- 2 header including a first bit identifying type of the field header, a field name
- 3 identifying type of the streaming media data, and a field length.
- 1 4. The method of claim 2, wherein the field header is a compressed field
- 2 header including a header type identifier, a field ID, and a field length.
- 1 5. The method of claim 2, wherein the field header is a combination field
- 2 header which includes a standard field header coupled to a compressed field
- 3 header.
- 1 6. The method of claim 1, further comprising placing streaming media data
- 2 in body of an RTP data packet.
- 1 / 7. A method for operating a caching proxy server comprising:
- 2 sending a request for streaming media data to a server, the request
- 3 including a request for data associated with the streaming media data, the
- 4 request including an identifier which represents one of several possible types of
- 5 data associated with the streaming media data;
- 6 receiving a response from the server indicating support for the requested
- 7 streaming media data;

8	informing the server to send the supported data associated with the
9	streaming media data;
10	receiving the streaming media data from the server in a body of a packet;
11	receiving a request from the client to send streaming media data; and
12	sending the requested streaming media data to the client.

- 1 8. The method of claim 7, wherein the data associated with the streaming
- 2 media data comprises a RTP Meta-Information payload format which includes
- a field header to identify the streaming media data associated with the request,
- 4 and a field body to include the streaming media data.
- 1 9. The method of claim 8, wherein the field header is a standard field
- 2 header including a first bit identifying type of the field header, a field name
- 3 identifying type of the streaming media data, and a field length.
- 1 10. The method of claim 8, wherein the field header is a compressed field
- 2 header including a header type identifier, a field ID, and a field length.
- 1 11. The method of claim 8, wherein the field header is a combination field
- 2 header which includes a standard field header coupled to a compressed field
- 3 header.

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- 1 12. The method of claim 7, wherein the sending the streaming media data to
- 2 the client further includes appending header fields of a data packet header
- 3 before sending streaming media data to the client.
- 1 13. The method of claim 12, wherein, appending comprising stripping of
- 2 name and ID of the data packet header.
- 1/14. A method of negotiating for various types of streaming media data by
- 2 the server comprising:
- 3 receiving a request for one or more types of streaming media data from a
- 4 caching proxy server or a client, the request including a request for data
- 5 associated with the streaming media data, the request including an identifier
- 6 which represents one of several possible types of data associated with the
- 7 streaming media data;
- 8 determining if requested types of streaming media data are supported
- 9 by the server; and
- 10 responding to the request with a response to indicate the capability of
- 11 the server to support the request, wherein the response is in a body of a packet.
- 1 15. The method of claim 14, wherein the data associated with the streaming
- 2 media data comprises a RTP Meta-Information payload format which includes

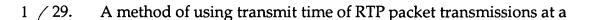
- 3 a field header to identify the streaming media data associated with the request,
- 4 and a field body to include the streaming media data.
- 1 16. The method of claim 15, wherein the field header is a standard field
- 2 header including a first bit identifying type of the field header, a field name
- 3 identifying type of the streaming media data, and a field length.
- 1 17. The method of claim 15, wherein the field header is a compressed field
- 2 header including a header type identifier, a field ID, and a field length.
- 1 18. The method of claim 15, wherein the field header is a combination field
- 2 header which includes a standard field header coupled to a compressed field
- 3 header.

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- 1 / 19. A method of negotiating for various types of streaming media data by
- 2 the caching proxy server comprising:
- 3 sending a request for one or more types of related or unrelated
- 4 streaming media data to a server, the request including a request for data:
- 5 associated with the streaming media data, the request including an identifier
- 6 which represents one of several possible types of data associated with the
- 7 streaming media data;

- 8 receiving a response in a body of a packet to each requested type of
- 9 streaming media data; and
- deciding whether to proceed or terminate negotiation process associated
- 11 with streaming media data.
- 1 20. The method of claim 19, wherein the data associated with the streaming
- 2 media data comprises a RTP Meta-Information payload format which includes
- a field header to identify the streaming media data associated with the request,
- 4 and a field body to include the streaming media data.
- 1 21. The method of claim 20, wherein the field header is a standard field
- 2 header including a first bit identifying type of the field header, a field name
- 3 identifying type of the streaming media data, and a field length.
- 1 22. The method of claim 20, wherein the field header is a compressed field
- 2 header including a header type identifier, a field ID, and a field length.
- 1 23. The method of claim 20, wherein the field header is a combination field
- 2 header which includes a standard field header coupled to a compressed field
- 3 header.
- 1 / 24. A method of frame thinning by caching proxy server comprising:

- 2 receiving a message from a client, the message indicating a need to thin
- 3 streaming media data being sent to the client;
- 4 evaluating priority of streaming media data; and
- 5 sending only selected streaming media data in a body of a packet.
- 1 25. The method of claim 24, wherein the data associated with the streaming
- 2 media data comprises a RTP Meta-Information payload format which includes
- 3 a field header to identify the streaming media data associated with the request,
- 4 and a field body to include the streaming media data.
- 1 26. The method of claim 25, wherein the field header is a standard field
- 2 header including a first bit identifying type of the field header, a field name
- 3 identifying type of the streaming media data, and a field length.
- 1 27. The method of claim 25, wherein the field header is a compressed field
- 2 header including a header type identifier, a field ID, and a field length.
- 1 28. The method of claim 25, wherein the field header is a combination field
- 2 header which includes a standard field header coupled to a compressed field
- 3 header.



- 2 caching proxy server the method comprising:
- 3 requesting data corresponding to transmit time for streaming media data
- 4 from a server;
- 5 receiving the streaming media data corresponding to transmit time
- 6 information from the server in a body of a packet;
- 7 storing the received information; and
- 8 transmitting from the caching proxy server to a client the streaming
- 9 media data at times specified by the transmit time.
- 1 30. The method of claim 29, wherein the data associated with the streaming
- 2 media data comprises a RTP Meta-Information payload format which includes
- 3 a field header to identify the streaming media data associated with the request,
- 4 and a field body to include the streaming media data.
- 1 31. The method of claim 30, wherein the field header is a standard field
- 2 header including a first bit identifying type of the field header, a field name
- 3 identifying type of the streaming media data, and a field length.
- 1 32. The method of claim 30, wherein the field header is a compressed field
- 2 header including a header type identifier, a field ID, and a field length.



- 1 33. The method of claim 30, wherein the field header is a combination field
- 2 header which includes a standard field header coupled to a compressed field
- 3 header.